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PTO/SB/21 (05-03)
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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/801,424	
	Filing Date	March 16, 2004	
	First Named Inventor	Ruizhong HU	
	Group Art Unit	1764	
	Examiner Name	Unknown	
Total Number of Pages in This Submission		Attorney Docket Number	W9570-01

ENCLOSURES <i>(check all that apply)</i>		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group <i>(Appeal Notice, Brief, Reply Brief)</i> <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <u>Information Disclosure Statement</u> <u>Letter; Copies of Submitted Cited</u> <u>References (20); and Return Receipt</u> <u>Postal Card.</u>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Charles A. Cross
Signature	
Date	November 11, 2004

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name	Debra P. Darcey	Date	November 11, 2004



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Signature			
Typed or printed name	Debra P. Darcey	Date	November 11, 2004

Toolawntator Inc



Attorney Docket No. W9570-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :)	Date: November 11, 2004
Hu, Ruizhong et al.)	
)	
Serial No.: 10/801.424)	Examiner: Unknown
)	
Filed: March 16, 2004)	Group Art Unit: 1764
)	
For: "Gasoline Sulfur Reduction Catalyst)	
For Fluid Catalytic Cracking Process")	
)	

Mail Stop DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

Pursuant to 37 CFR §1.8, I hereby certify that I have a reasonable basis to expect that this correspondence will be deposited with the United States Postal Service on or before the date indicated as first class mail in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<u>11/11/04</u>	<u>Debra P. Jarney</u>
Date	Signature

**INFORMATION DISCLOSURE STATEMENT TRANSMITTAL
LETTER/PETITION FOR CONSIDERATION UNDER 37 CFR §1.97**

I. Enclosed is:

- a. ☒ Information Disclosure Statement Form No. PTO-1449 and copies of references where indicated.
- b. ☐ Copy of the European Search Report dated _____ on European Application No. _____ which is:
 - ☐ The European counterpart of the above-identified U.S. application or one of its Parental ancestors, i.e. USSN _____, filed _____.
 - ☐ The European counterpart of related USSN _____, filed _____.
- c. ☐ Copy of the PCT Search Report dated _____ on PCT Application No. _____ which is:
 - ☐ The PCT counterpart of the above-identified U.S. application or one of its Parental ancestors, i.e. USSN _____, filed _____.

☐ The PCT counterpart of related USSN _____, filed _____.

d. ☐ Copy of the _____ Search Report dated _____ on the corresponding
_____ counterpart of the above-identified U.S. application.
(country)

e. ☐ Explanatory comments attached hereto as Appendix 1.

f. ☒ COPIES_(check at least one box)

☒ A legible copy of (i) each ☐ U.S.* ☒ foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed. (*Copies Of US Patents do not have to be provided for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003).

☐ Some or all of the documents listed on the PTO1449 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned.

g. ☒ Concise Explanation Of Relevance
(check at least one box)

☐ Documents Not In The English Language

☐ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:

☐ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as attached.

☐ Documents In The English Language
All of the patents, publications or other information are in the English language. No statement of relevancy is required.

☐ English Language Search Report
An English language version of the search report or action which indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

☒ Other
The following additional information is provided for the Examiner's consideration.

A copy of US 2002/0022704 is provided as an application corresponding to WO 02/08300 (copy also attached) which is cited on page 3 of Form PTO 1449, entitled "Foreign Patent Documents" and is in the German language.

II. ☒ The Examiner is requested to consider the references cited in the attached Information Disclosure Statement without a fee or certification because it was filed:

- ☐ within three months of the filing date of this national application, other than a continued prosecution application under 1.53(d);
- ☐ within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
- ☒ before the mailing date of a first Office Action on the merits; or
- ☐ before the mailing of a first Office Action after filing of a Request for Continued Examination under §1.114.

III. ☐ The Examiner is requested to consider the attached Information Disclosure Statement pursuant to 37 CFR §1.97(c) in that it is being filed after the periods specified in Paragraph II above, but before the first to occur of the mailing date of either:

- ☐ Final Action under 37 CFR §1.113; or
- ☐ Notice of Allowance under 37 CFR §1.311; or
- ☐ An action that otherwise closes prosecution in the application;

and in support of such request the undersigned either:

- ☐ has made the certification hereinbelow at Paragraph IVB pursuant to 37 CFR §1.97(e); or
- ☐ is paying a petition fee under 37 CFR §1.17(p) in the amount of \$180.00.

IVA. ☐ The Examiner is requested to consider the attached Information Disclosure Statement pursuant to 37 CFR §1.97(d) in that it is being filed before the payment of the Base Issue Fee and after the mailing date of any:

- (1) Final Action under 37 CFR §1.113;
- (2) Notice of Allowance under 37 CFR §1.311; or
- (3) An action that otherwise closes prosecution in the application.

and in support of said request the undersigned:

- (i) has made the certification hereinbelow at Paragraph IVB pursuant to 37 CFR §1.97(e); and
- (ii) is paying a petition fee under 37 CFR §1.17 (P) in the amount of \$180.00.

IVB. Certification Under 37 CFR §1.97(e)
[applicable to only III or IV above]

- ☐ The undersigned hereby certifies that for each item of information contained in the Information Disclosure Statement it was either:
 - (1) first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement, or
 - (2) not cited in a communication from a foreign patent office in a counterpart foreign application and, to the

knowledge of the undersigned upon making reasonable inquiry, was not known to any individual designated in §1.56(c) more than three months prior to the filing of the statement.

- V. ☐ The Examiner is requested to make the art of record in the following parental U.S. applications relied upon for an earlier filing date under 35 USC §120, of record in the present above-identified application.

U. S. Serial No.	Filing Date

VI. Fee Payment

- ☐ Petition fee under 37 CFR §1.17(p) to consider Information Disclosure Statement under 37 CFR §1.97(c) and (d) (fee code 1806) is \$180.00.
- ☐ Charge \$_____ to Deposit Account No. 07-1770.
- ☐ The Commissioner is hereby authorized to charge any additional fees under 37 CFR §1.16 and §1.17 which may be required by this paper, or credit any overpayment, to Deposit Account No. 07-1770. A duplicate copy of this Form is enclosed.
- ☐ A check in the amount of the fee is enclosed
- ☒ No fee due.

November 10, 2004

Date of Signature

Charles A. Cross

Attorney or Agent
Charles A. Cross - Reg. No. 32,406
Telephone: (410) 531-4508

Post Office Address (to which correspondence is to be sent): W. R. Grace & Co.-Conn.
Patent Dept.
7500 Grace Drive
Columbia, MD 21044-4098

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

ATTY. DOCKET NO.

W9570-01

SERIAL NO

10/801,424

APPLICANT

Hu et al.

FILING DATE

3/16/2004

GROUP

1764

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	Copy Submitted
	2004011629	6/10/2004	Stamires et al.	502	60	8/28/2003	<input type="checkbox"/>
	3293192	12/20/1966	Maher et al.	252	430	8/23/1965	<input type="checkbox"/>
	3402996	9/24/1968	Maher et al.	23	112	12/19/1966	<input type="checkbox"/>
	3607043	9/21/1971	McDaniel et al.	23	111	11/19/1969	<input type="checkbox"/>
	3676368	7/11/1972	Scherzer et al.	252	455 Z	8/26/1970	<input type="checkbox"/>
	3957689	5/18/1976	Ostermaier et al.	252	455	8/2/1974	<input type="checkbox"/>
	4126579	11/21/1978	Flaherty et al.	252	455Z	07/12/1977	<input type="checkbox"/>
	4218344	8/19/1980	Vasalos	502	64	1/11/79	<input type="checkbox"/>
	4226743	10/7/1980	Seese et al.	252	453	3/12/1979	<input type="checkbox"/>
	4267072	5/12/1981	Vasalos, I.	252	455 Z	8/6/1979	<input type="checkbox"/>
	4280898	7/28/1981	Tatterson et al.	208	119	11/5/1979	<input type="checkbox"/>
	4359378	11/16/1982	Scott, John W.	208	120	2/15/1980	<input type="checkbox"/>
	4458023	7/3/1984	Welsh et al.	502	65	11/2/1982	<input type="checkbox"/>
	4493902	1/15/1985	Brown et al.	502	65	2/25/1983	<input type="checkbox"/>
	4515902	5/4/1985	Shiori et al.	502	64	2/8/1994	<input type="checkbox"/>
	4542116	9/17/1985	Bertolacini et al.	502	65	5/3/1983	<input type="checkbox"/>
	4588701	5/13/1986	Chiang et al.	502	65	10/3/1984	<input type="checkbox"/>
	4606813	8/19/1986	Byrne et al.	208	120	5/3/1985	<input type="checkbox"/>
	4738941	4/19/1988	Dufresne et al.	502	66	4/24/1987	<input type="checkbox"/>
	4764269	8/16/1988	Edwards et al.	208	120	2/12/1987	<input type="checkbox"/>
	4781815	4/27/1987	Pellet et al.	208	120	4/27/1987	<input type="checkbox"/>

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use several sheets if necessary)</i>				ATTY. DOCKET NO. W9570-01		Page <u>2</u> of <u>5</u> SERIAL NO 10/801,424	
				APPLICANT Hu et al.			
				FILING DATE 3/16/2004		GROUP 1764	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	Copy Submitted
	4790982	12/13/1988	Yoo et al.	423	239	4/7/1986	<input type="checkbox"/>
	4791084	12/13/1988	Sato et al.	502	65	1/8/1987	<input type="checkbox"/>
	4855036	8/8/1989	Chiang et al.	208	120	12/18/1987	<input type="checkbox"/>
	4877514	10/31/1989	Hettinger et al.	208	120	11/10/88	<input type="checkbox"/>
	4889617	12/26/1989	English, A.	208	121	3/24/1986	<input type="checkbox"/>
	4957718	9/18/1990	Yoo et al.	423	244	11/24/1987	<input type="checkbox"/>
	4957892	9/18/1990	Yoo et al.	502	63	4/7/1988	<input type="checkbox"/>
	4963520	10/16/1990	Yoo et al.	502	64	8/1/1988	<input type="checkbox"/>
	4965233	10/23/1990	Speronello, Barry K.	502	65	10/20/1988	<input type="checkbox"/>
	5002654	3/26/1991	Chin, Arthur A.	208	121	12/28/1989	<input type="checkbox"/>
	5070052	12/3/1991	Brownscombe et al.	502	60	9/21/1990	<input type="checkbox"/>
	5376608	12/27/1994	Wormsbecher et al.	502	61	1/27/1993	<input type="checkbox"/>
	5525210	6/11/1996	Wormsbecher et al.	208	122	8/30/1994	<input type="checkbox"/>
	5990030	11/23/1999	McCauley, John R.	502	64	6/13/1997	<input type="checkbox"/>
	6007704	12/28/1999	Chapus et al.	208	218	9/23/1997	<input type="checkbox"/>
	6036847	3/14/2000	Ziebarth et al.	208	113	03/26/1996	<input type="checkbox"/>
	6482315	11/19/2002	Roberie et al.	208	249	8/28/2000	<input type="checkbox"/>
	6635168	10/21/2003	Zhao et al.	208	120.01	4/13/2001	<input type="checkbox"/>

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				FILING DATE 3/16/2004		GROUP 1764		
FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS SUBMITTED?	Copy Submitted	ENG LANG EQUIV
	967136	5/6/1975	CA	252	60	No	<input checked="" type="checkbox"/>	
	0 554 968	10/29/1997	EP	C1OG	11/18	No	<input checked="" type="checkbox"/>	
	0 583 025	2/16/1994	EP	BO1J	21/04	No	<input checked="" type="checkbox"/>	
	1315553	5/2/1973	GB	BO1J	11/52	No	<input checked="" type="checkbox"/>	
	02 08300	1/31/2002	WO			No	<input checked="" type="checkbox"/>	US 2002/0022704

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		APPLICANT Hu et al.		
		FILING DATE 3/16/2004	GROUP 1764	

EXAMINER INITIAL*	OTHER DOCUMENTS (Including author , Title, Date, Pertinent Pages, Etc.)	TRANS SUBMITTED ?	Copy Submitted
	P.O.F. Andersson, M. Pirjamali, S.G. Järås, M. Boutonnet-Kizling, "Cracking Catalyst Additives for Sulfur Removal from FCC Gasoline", Catalysis Today 53 (1999) 565-573.	No	<input checked="" type="checkbox"/>
	Mystrad et al., "Effect of Nickel & Vanadium on Sulfur Reduction of FCC Naptha", Applied Catalyst A: General 192 (2000) - Pages 299-305	No	<input checked="" type="checkbox"/>
	Krishna et al., "Additives Improved FCC Process/Hydrocarbon Process", Hydrocarbon Processing, November 1991, pages 59-66	No	<input checked="" type="checkbox"/>
	Breck, D.W., "Zeolite Molecular Sieves", Structural Chemistry & Use (1974) pg 94.	No	<input checked="" type="checkbox"/>
	American Chemical Society Symposium Series, No. 634, "Contaminant-Metal Deactivation and Metal-Dehydrogenation Effects During Cyclic Propylene Steaming of Fluid Catalytic Cracking Catalysts", Ch 12, pp. 171-183 (1996) by L.T. Boock, T.F. Petti, and J.A. Rudesill.	No	<input checked="" type="checkbox"/>
	Cheng, W.; Suarez, W.; and Young, G.; AIChE Symposium Series; Catalytic Cracking; "The Effect of Catalyst Properties on the Selectivities of Isobutene and Isoamylene in FCC", No. 291, Vol. 88, pgs 38-44.	No	<input checked="" type="checkbox"/>
	Cheng, W., Roberie, T., Suarez, W., Young, G.; National Petroleum Refiners Association; "Reformulated Gasoline: The Role of Current and Future FCC Catalysts", Presented at 1991 NPRA Annual Meeting, March 17-19, 1991, Convention Center, San Antonio, Texas, AM-91-34.	No	<input checked="" type="checkbox"/>
	Journal of Catalysis 85, "Prediction of Cracking Catalyst Behavior by a Zeolite Unit Cell Size Model"; pps. 466-476 (1984) by Pine, L.A., Maher, P.J., and Wachter, W.A.; Exxon Research & Development Laboratories, Baton Rouge, LA.	No	<input checked="" type="checkbox"/>
	Fifth International Symposium on the Advances in Fluid Catalytic Cracking, August 22-26, 1999, New Orleans, LA. "Gasoline Sulfur Removal. Kinetics of S. Compounds in FCC Conditions" by A.Corma, P. Gullbrand, C. Martinez at Instituto de Tecnologia Quimica, UPV-CSIC, Av. Los Naranjos, s/n 46022 - Valencia, Spain	No	<input checked="" type="checkbox"/>
	G. W. Young, G.D. Weatherbee, and S.W. Davey, "Simulating Commercial FCCU Yields With The Davison Circulating Riser (DCR) Pilot Plant Unit," National Petroleum Refiners Association (NPRA) Paper AM88-52.	No	<input checked="" type="checkbox"/>
	J.S. Magee and M.M. Mitchell, Jr. Eds. Studies in Surface Science and Catalysis Volume 76, Ch 8, pp 257-292, Elsevier Science Publishers B.V., Amsterdam 1993, ISBN 0-444-89037-8 ; G.W. Young, "Realistic Assessment of FCC Catalyst Performance in the Laboratory," in Fluid Catalytic Cracking: Science and Technology.	No	<input checked="" type="checkbox"/>
	Albro et al. "Quantitative Determination of Sulfur Compounds in FCC Gasolines" by AED - A study of the Effect of Catalyst Type & Catalytic Conditions on Sulfur Distribution", Journal of High Resolution Chromatography, Vol. 16, January 1993.	No	<input checked="" type="checkbox"/>
	Beyerlein et al., "Fluid Catalytic Cracking II - Concepts in Catalyst Design. Ocelli, M.L. Ed. ACS Symposium Series 452, American Chemical Society: Washington, DC, pp. 109-143 (1991).	No	<input checked="" type="checkbox"/>

EXAMINER	DATE CONSIDERED
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EXAMINER INITIAL*	OTHER DOCUMENTS (Including author , Title, Date, Pertinent Pages, Etc.)			TRANS SUBMITTED ?	Copy Submitted
	Palmer et al., Appl. Catalysis, Vol. 35, pp. 217-235 (1987)			No	<input checked="" type="checkbox"/>

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